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Global Remote Mentoring projects showing great results

A Global Remote Mentoring project lead by Girish Sundaram, Technical Solution Architech, Software Lab has been accepted for publication in the prestigious "The International Journal of Database Management Systems (IJDMS)". Arun Tripathi from IIT Guwahati worked with Girish on this project titled "Business Process Based Database Recovery and Studies on Checkpoint Interval". The International Journal of Database Management Systems (IJDMS) is a prestigious quarterly open access journal that publishes articles which contribute new results in all areas of the database management systems & its applications. The goal of this journal is to bring together researchers and practitioners from academia and industry to focus on understanding Modern developments in this field, and establishing new collaborations in these areas.

Another project with MSRIT Bangalore titled “Use of Data Integration and analytics for improved sericulture yield” has won the Best Innovator Award at BangaloreIT biz 2011 and Best Poster & Demo at i-CARE 2011 in Services for Emerging Countries track. The project was led by Nishant Kulkarni from IBM.

Brief of the project: Habitat of the silkworms used for sericulture is influenced by abiotic factors such as temperature and humidity. Variations in these parameters affect the quality and quantity of silk-cocoons produced. A field research study was conducted at Regional Sericulture Research Station, Kodathi (urban Bangalore) and Hoskote (rural Bangalore). A prototype was developed using wireless sensors to monitor the habitat parameters. The results obtained shows a lot of promise if technology is applied in the relatively untouched domain of sericulture.

We have also filed a patent disclosure from an interesting problem done with BMS College of Engineering Bangalore. This project deals with “Architecture and method for P2P protocol within a LAN for automatic propagation and stabilization of configuration files” was led by Shailaja Malaya from IBM. Students brought creativity into the idea by tuning an existing protocol to suit the project needs. The protocol was difficult to modify, but they accomplished it. As a result of this, we now can state that with minimal changes to the existing industry protocol standards we can achieve what we set out to.

Our GRM projects are also providing support to regular business activities at IBM. A project in Smart Banking through ATM is found useful in preparing proof of concept for banking clients. The project proposes use of Business Analytics technology in ATM machines for expenditure analysis of user transactions over a period of time and also creating meaningful reports (from bank perspective) on expenditure data which will help bank to target specific customers for scheme. This project was done with BESU and led by Vipul Satav, Hari Duche, Prafulla Ranadive from IBM.

The following teams from the global remote mentoring led by Dr. LV Subramaniam, Manager, Information Quality and Discovery, IBM Research – India participated in the SMS based FAQ Retrieval task at the Forum for Information Retrieval (FIRE) 2011 and performed outstandingly.

- Arpit Gupta, DCE Delhi, came first in the crosslingual task and two multilingual tasks
- Anwar Shaikh, Rajiv Ratn Shah, Mukul Jain, Mukul Rawat and Manoj Kumar, DTU Delhi, came first in the Hindi monolingual task
- Nishit Shivhre, RVCE Bangalore, came second in the English monolingual task

A total of thirteen international teams participated in the SMS task at FIRE 2011. More details about the task can be found here: http://www.isical.ac.in/~clia/faq-retrieval/faq-retrieval.html
Shared University Research Grant to IIT Guwahati

University Relations India manages to get one more Shared University Research (SUR) Grant for IIT Guwahati. The SUR Executive Committee has recently approved an award for Indian Institute of Technology - IIT Guwahati to support the Improved Accessibility for Smarter Workforce Management: Computer Assisted Therapy and Rehabilitation for Speech, Hearing and Language Pathologies project. The goals of this collaboration will be to develop computer interactive therapies for spoken-language disabled individuals, especially in India -- this includes persons with difficulty articulating and hearing. More specifically, the first part: to create interactive solutions that can help persons with articulatory disorders improve their speech. The interactive system will analyze the sounds of the user's speech and then provide the user with feedback on the errors and remedial exercises. The second part: to develop techniques to improve the efficiency of Cochlear Implants and hearing aids in transmitting speech and sound particularly in ambient noisy situations. IBM's accessibility solutions will be used in this project.

It is also important to note that the other SUR projects of 2011 are on track and we have made notable progress in use of cloud based ICT for mass education at the YCMOU. Another SUR project led jointly by IIT Bombay, IIT Delhi & College of Engineering Pune on cloud collaboratory is also going on very well.

HPC Faculty Enablement and HPC workshop at Dar-es-Salaam Institute of Technology, Tanzania (Africa)

The Dar-es-Salaam Institute of Technology (DIT - www.dit.ac.tz/), Tanzania was established in 1997. Prior to that, the institute was established with the main task of providing vocational training center in the country in 1957. DIT is planning to establish the "Center of excellence in the High Performance Computing" and interested to strengthen the expertise knowledge in technology core areas like scientific application porting, performance tuning, optimization, compute-communication - IO patent tuning in the applied HPC applications. In Africa, most of the academic institutes are lagging in the technology trends. Our HPC team will play a crucial role to fill-up the gaps in technology update & architecture trends in the industry by the way of providing a knowledge sharing sessions, technical advisory, remote mentoring etc.

IBM HPC team conducted a 4 days of hands on experience and HPC workshop at DIT. Faculty members from various department attended the HPC workshop and participated & gathered the knowledge in the real time demo applications like bio informatics, life science, molecular dynamics and weather application simulations in the HPC cluster.

The HPC workshop was organized by Ganesan Narayanasamy and technical sessions conducted by Nagarajan Kathiresan.

Faculty Enablement at MIT, Chennai: High Performance Computing, workshop at Anna University, MIT Campus, Chennai

Madras Institute of Technology (MIT), Anna University and IBM High Performance Computing team conducted two days of HPC workshop on the following topics:

- Fundamentals of HPC - Parallel Computing.
- Fundamentals of Processor Architecture for HPC.
- Power Architecture Overview and its current generation processor features.
- Parallel Programming with MPI.
- Parallel Programming with OpenMP.
- Green HPC.
- HPC & Cloud.

The workshop was inaugurated with introductory presentation by Prof. Dr.S.Thamarai Selvi, Dean, MIT. IBM HPC team conducted the knowledge sharing sessions on parallel programming paradigms using MPI and OpenMP. Additionally, insights into IBM Power architectures details were explained with real time demos. During the presentation, IBM Power 7 and iDataPlex cluster systems were used for demos on scientific applications, scalability analysis, performance engineering aspects etc.
Storage and Virtualization course delivered at College of Engineering, Pune

India Storage Labs successfully completed the "Storage and Virtualization" course offered to approx 32 final year BE students of College of Engineering, Pune. The course duration was for 40 hours and included lectures on:
1) Basic concepts on Systems and Storage
2) Storage hardware and SCSI protocol
3) SAN, NAS, Fibre Channel and (iSCSI
4) Storage Virtualization Concepts
5) Applications and Use cases for Storage Virtualization
6) High Availability, Clustering and Performance Considerations.

Storage Lab engineers were also responsible to set the mid-Sem and Final questions papers along with taking the course VIVA exams.

IBM Research - India delivering courses at Delhi University for MCA students

Dr. Yogish Sabharwal, Manager, High Performance Computing at IBM Research - India has been teaching courses at Department of Computer Science, University of Delhi as an Adjunct Faculty. Venkat Chakrarvarthy and Sambuddha Roy have also taught "Approximation Algorithms" as a semester course for MCA students.

Cognos Training at SIES College of Management Studies, Nerul

Jeremiah Joseph from Software Group has conducted a Cognos training at SIES, Nerul - Navi Mumbai on December 17, 2011. Jeremiah covered General BI / Performance Management and Cognos overview in this session. About 30 faculties attended this session and got hand on training.

Invited talk at CDAMOP

Dr. Chiranjib Sur from IBM had given an invited talk in the CDAMOP conference at Delhi and the title of talk was "Achieving P in HPC". This was a conference for applied physicists working on Atomic, molecular, optical physics and nano technology.

Invited talk at Arizona State University

Dr Ullas Nambiar from IBM Research - India visited the School of Computing, Informatics and Decision Systems Engineering at the Arizona State University, Tempe, Arizona on 27th October, 2011. He gave an invited talk titled "From Data to Decisions". The talk was attended by both faculty and students. Ullas also interacted with several graduate students who showed keen interest in pursuing internship opportunities at IBM Research Labs India in the summer of 2012.
IBM HPC Workshop at Unicamp, Campinas - Brazil
Workshop was focused on building awareness on HPC Architecture, HPC Cloud computing, HPC Solutions, BlueGene/Q Features, IBM Watson and future HPC technologies. Also deep-dive sessions on HPC programming models like MPI, OpenMP, HPC Performance analysis tools along with hands-on lab sessions was delivered. Overall the workshop was well received by Faculties and Research Associates.

Audiences included Researchers and Post Graduate Students and faculties from Unicamp and other Brazilian Universities. They represented different areas like Mechanical Engineering, Physics, Molecular Biology. Their interest included in exploring possibility of using parallel programming in their domain related research, computational simulation works.

Unicamp (http://www.unicamp.br/unicamp/en/unicamp) is an independent and autonomous university funded by State Government of São Paulo. Unicamp has three campuses - in Campinas, Piracicaba and Limeira - which are home to 22 teaching and research centers. University offers programs of Research, under graduation and post graduation in the areas like Physics, Chemistry, Biology and Engineering.

IBM Participation in the National Workshop On Application of Artificial Intelligence in Bioinformatics [A2IB ‘11]
The national level workshop was organized by Department of Bioinformatics at Karunya University during November 30 – December 2, 2011 to focus on the recent developments in various thrust areas of Mathematical Modeling and Computational Biology. The workshop included invited lectures, student presentations, and hands-on-training from researchers, faculty, and students from multiple universities across India. Karunya University invited the High Performance computing group at IBM India to participate in the workshop. Dr. Saumil Merchant represented IBM at this workshop as a chief guest, he inaugurated and deliver a keynote. In his keynote, Dr. Saumil addressed an enthusiastic group of students, faculty, and researchers on "Advances in HPC Accelerator Technologies and Its Applications to Bioinformatics".

Workshop and discussion with IIT Bombay, Electrical Engineering (HPC) Department on 5th October
Ganesan Narayanasamy participated in a workshop and discussion forum with the Electrical Engineering (HPC) department at IIT Bombay and presented HPC features, HPC curriculums and Academic Initiatives. During this workshop, he demonstrated various HPC applications for their requirements such as Energy and Networking. As a result of the discussion, they accepted to work on a research proposal and also they requested for a 2 days HPC workshop on our Curriculum for their researchers. Professors participated in the discussions were Sachin Patkar, Prof Gaurav Trivedi and Prof. Saravanan.
IBM participated at The Grace Hopper Celebration
Continuing our commitment to Diversity, IBM University Relations team contributed to The Grace Hopper Celebration (GHC) of Women in Computing, a conference series that brings research and career interests of women in computing to the forefront. This event witnessed around 1200 women leaders across industry, academia and the government. Around 200 students from various universities participated in poster contest and technical contest. The Women in Technology Hub at University Relations contributed as organizing committee members, panelists and technology reviewers for the poster contest. University Relations sponsored prizes to the poster competition in student category. More than 30 speakers and panelists from IBM including IWLC members and women leaders shared thought leadership. Around 16 posters were presented by SMEs across many technology domains by IBMers. UR team had received very positive feedback across industry for their commitment towards diversity while building the pipeline to face the future of computing.

IBM Women In Technology - UR Mentoring Program
After the success of the IBM Web Tech contest, a unique mentorship program " IBM WIT - UR Mentorship Program" was launched to mentor women students who made it to the second round of the IBM Technology Web Contest.

This unique mentorship program aims at providing IBMers as mentors to women students. We are currently mentoring student in 4 major areas i.e., Technical Guidance, IT Career Guidance, Communication Skill Guidance and Personality Development Guidance. We are currently in the process of matching mentors to the women students who have enrolled for the IBM Women In Technology - University Relations Mentorship program.

IBM Research played key role in organizing COMAD 2011
The 17th International Conference on Management of Data (COMAD 2011) was successfully held from Dec 19-21 at IIIT Bangalore. IBM Research played a key role in organizing the conference along with IISc and IIITB. Karin Murthy and Vinayaka Pandit were the Organization Co-Chairs, whereas Prasad Deshpande was the Program Co-Chair. The conference featured an exciting program consisting of 3 keynotes, 5 tutorials, 2 research and 3 industry sessions, It was attended by over 150 people, which included an equal mix of students, faculty and industry participants. The feedback from the participants has been uniformly positive. IBM was a silver sponsor for the event.

IBM University Relations participated in the regional ACM ICPC Contest
India University Relations participated in the regional ACM ICPC Contest at IIT Kanpur and Amrita University. Manu Kuchhal and Sreekanth Iyer from Software Labs participated and presented at this event as Industry partners. Manu presented on “Know whom you deal with: Entity Analytics” while Sreekantha presented on “Understanding the Cloud Adoption Patterns- Opportunities and Challenges”. Natarajan Chellappan from GTS represented IBM at Amrita University. IBM is a global sponsor to this exciting contest. The contest challenges students, working in three-person teams, to rely on their programming skills and creativity during a five-hour battle of logic, strategy, and mental endurance. Students solve complex problems using both traditional and new software development tools.

IBM participation at HiPC 2011
Dr. Manish Gupta, Director, IBM Research - India and Chief Technologist for IBM India/South Asia delivered keynote talk on “Computing Challenges for the Brave New World”. In this talk, he spoke about applying analytics over data collected in real time in this increasingly instrumented world. He introduced several unique challenges faced in emerging markets like India and described areas that will require further advances in computing and business model innovations to achieve truly transformational impact.

IBM also participated in the Industry, Research and User Symposium session on “Cloud Computing Futures”. Dr. Aruna Ramanan, technical leader in HPC Systems development at IBM was one of the presenters in this forum. She delivered a talk on “Cloud Computing Future: Is it a song that will never end?” analyzed the dynamics of cloud computing.

IBM Booth @ Industry Exhibits – IBM India HPC team (consisting of Chiranjib Sur, Saritha Vinod, Anto John, Aditya Nitsure, Jigar Shah and Ganesan Narayanasamy) established a strong presence of IBM in the HPC Industry Exhibits section by showing various IBM solutions for HPC and handling the customer/ user/academia queries.

A technical paper on “Parallel Implementation of MOPSO on GPU using OpenCL and CUDA” which was co-authored by Sheshasayee Subramaniam from HPC India team along with Pushkar Jambhlekar and Manoj Misra from IIT Roorkee was presented in the technical track on GPU and many-core Simulations.

IBM Participated at ICAC 2011
Srinivas Gundugola from IBM Software Group participated at International conference on Advances in Computing (ICAC-2011), organized at PSG College of Technology, Coimbatore and gave keynotes sessions on SOA. Dr.Karpagam Manavalan, Professor, Dept. of CSE shared excellent feedback from the participants. Dr. Karpagam is hopeful of strengthening our relationship through such kind of technical activities and projects etc.
India’s largest technical contest - TGMC 2010 Winners announced!

Winners of TGMC 2010 were announced during the felicitation ceremony held in New Delhi at The Leelas Hotel on 15th November, 2011. Gracing the occasion as chief guest was Mr. Shanker Annaswamy, Regional General Manager, IBM India Pvt Ltd. along with Mr. Anil Menon, Director Marketing, SWG, IBM India. They gave away the prizes to KMIT Chargers from Keshav Memorial Institute of Technology and Science, Hyderabad, declared as the winners of the prestigious contest in recognition of their innovative project submission on Internet Banking System. The runners up were Scriptocoders from Madras Institute of Technology, Chennai and KP’s Eagle software solutions from KL University, Vijayawada. The other categories recognized were Top 30 Colleges, All Girls Teams, Top 10 State Awards, Top 20 Teams and Drona Awards for faculty mentors of teams. “The Great Mind Challenge 2010” - a pioneering nation-wide software development and research contest that saw record participation from 1,50,000 students and faculty members from 2,000 Indian colleges, submitting a total of 3000 projects.

TGMC 2011 - Crossed the 2010 registration numbers!

Surpassing the last years TGMC registration numbers of 120000 student registrations, this year we have already touched around 140000+ student registrations. Registrations are still on and we hope of crossing the 1.5 lakh mark!

http://on.fb.me/ibmtgmc - TGMC on Facebook

Academia Speaks on TGMC

- An Achievement like this changes everything……. Thanks TGMC ! “Team Webdiver of TGMC 2010”
- TGMC gave us confidence to explore new opportunities Thanks a lot! “Utkarsh of Team Webdiver of TGMC 2010”
- TGMC is doing a great job IBM is contributing well to the students community, Thanks to IBM / TGMC. “Dr K Sidhappa, VelTech College”
- TGMC is the platform for students to broaden their vision and experience real IT industry ! Kudos to you. “Ankita, Faculty, MIET”

Academia Speaks

“IBM is organizing TGMC contest since 2004 and now lakhs of students are participating in this contest and they are getting benefits out of it. As an IBM ambassador in my college I have contacted many students, and found them interested in all the activities of IBM either workshops or contest. This time about 500 students registered themselves for TGMC contest, one reason behind this is when they get to know about IBM tools, their simplicity, efficiency, correctness and when they attended the workshops, they become interested in IBM tools, and many students come back asking about more workshops and tools.”

- Utsah Agrawal - Madhav Institute Of Technology & Science, Gwalior, IBM CoE Ambassador
IBM Technical Web Contest 2011
The IBM Technical Web Contest was conducted recently to celebrate the completion of 10 years by IBM Software Labs and to emphasize the importance of diversity in IBM, received overwhelming response from students across India’s leading campuses. This was first of its kind contest designed by IBM India University Relations team, based on combined themes of "Smarter Planet" and "Women in Technology". We have got 180 submissions from 50 Top colleges across India, of such high quality that the jury had a formidable task cut out for them while short listing the final 10 papers. Top 100 Ideas are collated and published, keeping in view that this is IBM centennial year celebration. Top 10 teams (mentioned below) and the Best paper on the Role of Women in Technology of the IBM Technical Web Contest are given the chance to present their ideas at a wider forum and platform.

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Best Paper in Role of Women in Technology
Athenas
SVNIT Surat

VJTI Students visited IBM
Students from VJTI made an industrial visit to India Software Labs, Bangalore and met & interacted with Business Analytics and Cloud Computing groups. Narayanan.S.L from SPSS Blueprints | Business Analytics presented on Predictive Analytics and he covered following topics in his presentation:

- IBM Business Analytics Overview (various analytics areas and how IBM products fits in them)
- Predictive Analytics or Data Mining Process & Tools (Focus on IBM SPSS Modeller and CRISP-DM)

Sreekanth Iyer, Senior IT Architect – IBM Security Solutions CTO Team provided the students with the overview of Cloud Computing as well as discussed the opportunities, possible research areas and career roles with them. Student found these sessions very informative and keenly look forward to work with IBM in future.

Best IBM Software Centre of Excellence 2010
The best IBM Software Center of Excellence awarded to MLR Institute of Technology, Hyderabad, which showed an all round performance in IBM Academic Initiatives Training & Certification numbers along with their own faculty participating in evangelizing the sessions, and a good TGMC participation in 2010.

Successful Web lecture Series in 2H, 2011
This has been a successful Web Lecture season with 28 lecture and more than 3500 participants joining these sessions. Think Friday University lectures by IBM Fellows, DE’s and Senior Researchers were subscribed heavily by students and faculties. Technical lecture series on Information Management, Business Intelligence, Cloud Computing, Enterprise Architecture were also appreciated by the students. This season, we also had some special sessions by Dr. Ponani Gopalakrishnan, Priyansh Dixit and Rajesh Patil. The overall feedback for these sessions are quite encouraging and students are looking forward to hear some more interesting topics from us in next season.
University Relations Team

UR Collaboration Platform
IBM Technical Contest
Remote Mentoring
Center for Advanced Studies (CAS)
Shared University Research Grants (SUR)
Faculty Awards
Curriculum Consultation
Academic Initiative & developerWorks

Devkant Aggarwal
Raj K Sharma
Devkant Aggarwal
Dr. Vishwanath Narayan
Dr. Bhooshan Kelkar
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